Data Card (16) Series DVR

USER MANUAL

E261 - WCDMA Open modem

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Chapter one Product Description

1.1 General

This equipment is designed specifically for the field of a number of digital security surveillance products, which uses an Embedded Processor Init (MPU) and operating systems, combined with the field of the latest IT technologies, such as video and audio encode/decode, high-capacity hard disk recorder, TCP / IP network technology, firmware in FLASH, making system operation more stable. This equipment, with digital video and audio recorder (DVR) and digital video and audio server (DVS) features at the same time, can works not only in local independently,but also be networked to form a powerful security monitoring network. It applies to bank, telecommunications, electric power, justice, transportation,residencel, factory, warehouses, water conservancy facilities and other areas and departments of the safety precautions.

Model	**4 channel DVR**	**8 channel DVR**	**16 channel DVR**
Operation system	Embedded Linux operation system		
System resource	4/8/16 channel CIF real-time video and network-wide transmission, 1 ,4,9or 16-channel CIF Playback at the same time.		
Operation interface	Graphical user interface (GUI), mouse, panel, remote control operation		
Video standard	PAL、NTSC		
Image compression	H.264		
Audio compression	ADPCM		
Recoding mode	Manual, timing, alarm, motion detection		
Video Search	Time search, event search, channel search, the log search		
Backup	network backup, USB backup		
Video input	4BNC	8BNC	16BNC
Video output	1BNC,1VGA out		
Audio input	2ch	2ch	2ch
Audio output	1ch	1ch	1ch
Monitoring quality	PAL：720x576（D1）；NTSC：720x480（D1）		
Playback quality	PAL：352x288（CIF）；NTSC：352x240（CIF）		
Image Control	6 shifts for regulable		
Motion Detection	for each channel of the detection area (16 × 16), multi-level sensitivity can be set		
Image display	1,4 Image display	1,4,8 Image display	1,4,9,16 Image display
Video Speed	PAL: 25 frames / sec (adjustable) NTSC: 30 frames / sec (adjustable)		
Video Save	The hard drive, network		
Local playback	1,4 Image display	1,4,8 Image display	1,4,9,16 Image display
Alarm Input/output	4 channel/in&1 channel out (optional)		
PTZ	RS485		
HardDisk Interface	1 SATA interfaces	2 SATA interfaces	2 SATA interfaces
Network interface	Self-adaptive Ethernet interface. RJ45 10MB/100MB,TCP/PPPOE/DHCP/DDNS/FTP/UPNP		
USB Interface	2USB2.0 high-speed interface;		
Power	12v power		

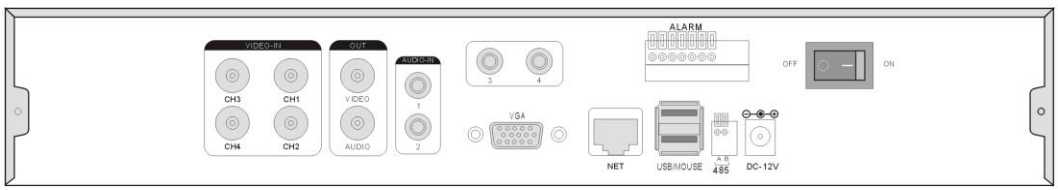
Chapter Two: Structure Appearance Description

2.1 Panel Description

Keys	Identifier	Features
Power indicator	POWER	The DVR is powered when the power indicator lights up
HDD LED	HDD	REC lamp flashes when the hard disk working
Status indicator	RUN	Flashes when the machine working
Infrared receiver	IR	Infrared remote control receiver
Menu key	MENU	Press the Menu key to enter the menu interface
Exit key	ESC	Exit the current screen
The number keys	0-9	Digital input,full screen to enlarge the corresponding channel under the preview mode
Function of auxiliary keys	F1、F2	Auxiliary function
PTZ control key	PTZ	To enter the PTZ control interface
Video button	REC	Enter into the video settings interface , you can choose the automatic recording, manual recording , stop recording
Play button	PLAY	Start playback
Arrow keys	▲▼◄ ►	Switch the current activated control,to move up and down ,left and right
Enter key	↵	Operation confirmed
Window switching key	⊞	For 1/4/8/9/16 picture segmentation mode switch

2.2 Product Interface Description

4 channel DVR　Rear Panel Description：



AUDIO OUT：Audio Output Connector　　AUDIO IN：Audio Input Connecor

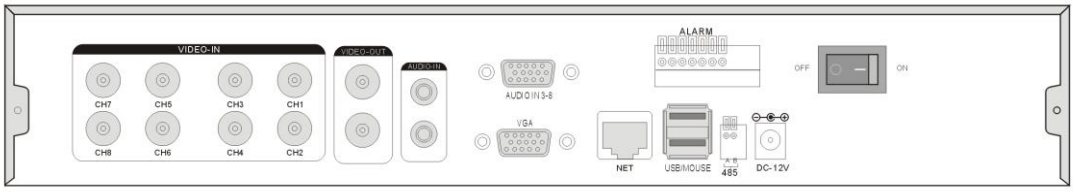
VIDEO IN：Video Input Connector　　NET：RJ-45 Standard Network Connector

VIDEO OUT：Video Output Connector　　RS-485：485 Pan/Tile Device Connector

USB：Standard USB Connector　　DC12V：12V(DC) Power Connector

VGA：Video Output Connector(Optional)　　POWER：Power key

8 channel DVR　Rear Panel Description：



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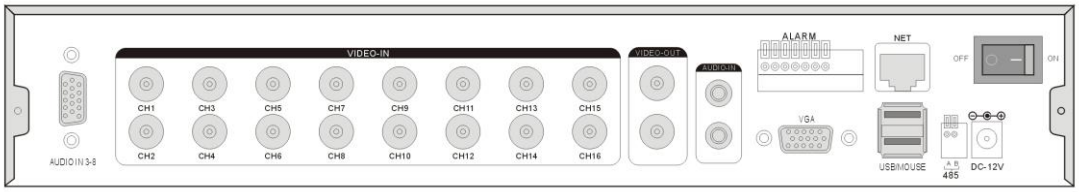
VGA：Video Output Connector(Optional)　　POWER：Power key

16channel DVR　Rear Panel Description：



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VIDEO OUT：Video Output Connector　　RS-485：485 Pan/Tile Device Connector

USB：Standard USB Connector　　DC12V：12V(DC) Power Connector

VGA：Video Output Connector(Optional)　　POWER：Power key

2.3 Remote Control Description

POWER	Power switch
DEV	Device button: input the corresponding device number with equipment after
0-9	Number button
MENU	Menu button;eliminate all the areas when set up motion detection area
ESC	Exit
▲	In menu mode, select upwards; in PTZ mode, control the dome camera to
▼	In menu mode, select downwards; in PTZ mode, control the dome camera to
◀	In menu mode, select left; in PTZ mode, control the dome camera to
▶	In menu mode, select right; in PTZ mode, control the dome camera to
ENTER	Select key
PLAY	Video playback
FN	Subsidiary key
REC	Recording key
VIEW	Multi-screen key

Note:Many devices in near space,remote control should select a device according to device number.So each device needs a unique device number,unless remote control may operate devices with the same number.

Chapter Three: Description of Operation System

3.1 Turn on / off

Confirm that AC voltage accessible matches the requirements of digital video recorder.Ensure that the digital video recorder power outlet to a good middle ground termination. Access to power, the device started 【POWER】 light is on, into the system, the panel RUN light flashing as normal conditions.

3.2 Preview

Preview screen can be seen immediately after equipment is normally starts. In the preview screen you can see the system date, time, channel name. Press corresponding number key of panel or click the left mouse button, then a single image preview can be available; Press panel "QUAD" key or click the left mouse button, you can return to a multi-screen monitoring state.

3.3 Menu basic operation instructions

3.3.1Enter menu mode

【Main Menu / MENU】 key to enter the device's main menu interface. 【PLAY / PLAY】 shortcut keys to enter playback

interface.

【Video / REC】 shortcut keys to enter manually recording interface. 【PTZ】 shortcut keys into PTZ control interface.

Description: Default password is empty, click "enter" can into menu directly.

3.3.2 composition of the menu

Menu component units mainly in the following categories:

（1） **Check box**: providing two kinds of status options, "√" represent enable, "□" disable, use 【confirmation /↵】 button or 【↑】, 【↓】 key or click the left mouse button to choose.

For example: file search menu page, the "Select Channel" and the "video type" check box.

（2） **Selection box:** According to the system, the contents of the drop-down box options, select the target content. Use 【↑】, 【↓】 key or click the left mouse button to select.

For example: in the encode setup menu,choose "Select Channel" and the "video type" check box.

（3） **List Box:** Displays the inquiry results of information in the list, you can select one option for operation in the provided list.

For example: Choosing the file in the Video backup result list by pressing 【OK/↵】 button or the left mouse button.

（4）**Edit box:** Enter the target name into edit box

For example: System Configuration menu pages, the “equipment name” edit box, enter numbers, English letters, punctuation and so on

use panel key 【↑】【↓】【←】, 【→】or after positing the edit box by mouse, press "↵" key or click the left mouse button, then the enter keyboard appears, select the desired input target characters through the arrow keys or click the left mouse button.

b) Safe or Exit the editing status by pressing 【ENTER】 【CANCEL】 button or button【ESC】

（5） **Button:** used to implement a specific function or enter the next setting menu, enter by clicking 【OK /↵】 key and the left mouse button.

3.3.3 Exit Menu mode

Press 【MENU】, 【Exit / ESC】 or the right mouse button to exit the menu mode

Click the right mouse button, return to the previous menu level.

3.4 Main Menu Introduction

Press MENU key or the right mouse button pop-up the main menu, main menu consists of the following three components

Preview mode: in the menu column, select the corresponding screen preview mode.

Shortcut menu: in menu column, there are: video playback, manual recording, PTZ control, sound shortcut menu can be directly into the corresponding pages in the menu.

The main menu bar: Click into the post includes video inquiry, document backup, system setting, management information, system information , exit menu column.

3.5 Video Playback

Click main menu column "video playback" into file search interface.

3.5.1 Video Search

Channel selection: select the target channel, click check box to choose. "√" is checked; "□" not selected.

Record mode: select the record mode of searching, click check box to choose. "√" is checked; "□" not selected. DATE

Time setting: enter the beginning and end time in the edit box to search the video.

Storage device: in the selection box select the target backup storage device.

Search : after searching criteria set, click the button, the system will begin to search the corresponding video information, and list the search results. “RED”-regular time recording,” GREEN”- Motion Detection recording, ”YELLOW”-alarm recording.

Playback: Go into video playback interface, use up-down-left-right button or mouse to set the time period, click 【↵】or left of mouse go into playback interface.

Cancel : back to previous menu

3.5.2 Article playback tools

Select the playback file or playback by time, it will enter the video playback interface.

Article playback tools: Article playback tools will appear below the in the playback interface, you can click the left mouse button to magnify or narrow channel video.

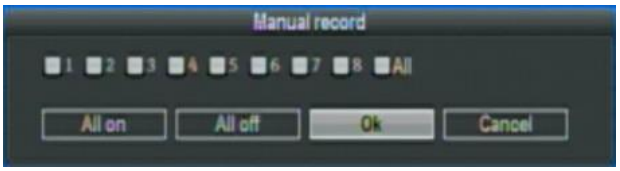
Stop Play: Click the button , the system will stop playing and exit the playback interface

Pause / Play: Click the button to pause playback, click to continue video playback.

Fast forwarding**:** click can fast forwarding playback. Times fast forwarding can be set by click again.

Exit playback： Click “ESC” or button to withdraw playback screen at any time; After play all,it will quit the playback screen voluntarily

3.6 Manual Recording



Click left mouse button to choose "manual recording" in main menu column or click【Video / REC】to enter its settings interface.

Manual Video Interface Description

Manual recording interface consists of several components:

Channel number： correspond to the equipment video channel.“☑ open；“□”close。

Full On： choose all channels video settings "on"

Full Off： choose all channels video settings "off"。

OK： Confirm and exit。

Cancel： Click return button, it will exit Manual recording interface and back to main menu column

Remark： Manual recording must be stopped by manual,or it will record continually

3.7 PTZ Control

Click "PTZ control" in main menu interface for access to its settings interface

Main operation of PTZ control include: directional control; horizontal sweep; zoom control; adjust the focal length; adjust aperture; PTZ speed.

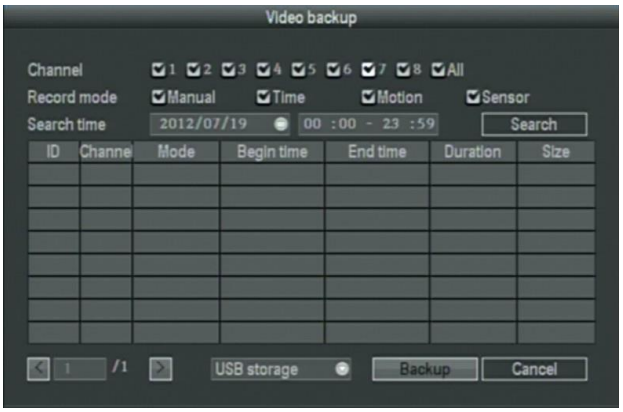
3.8 Menu

Click "menu" in shortcut menu enter into the main menu interface, including: video inquiry, record backup, system settup, information management , information system,system logout.

3.8.1 video inquiry

In the playback shortcut menu *（see3.5playback）*

3.8.2 document backup



Choose"channel"and "record mode", set the range of date and time，click "search".

After choosing a file from the column--"enter". It will be backup success when it show 100%.

Remark: Backup USB device must be fat32 form.

3.8.3*System Setup*

In the main menu interface, select "System Settings" to enter its sub-menu interface. Including: Miscellaneous,Encode setup,record setup,network setup,screen setup,video detection,PTZ set up,sensor setup.

3.8.3.1Miscellaneous

Choose"system setup"

DATE TIME：preview time show in DVR . After setting,click"refresh".Notice: Recording will stop during time change period. OK,safe.

Date Format：setting in ：Y/M/D”、“D/M/Y”、“M/D/Y”

Key Lock：system will logoff present user if there is 10munite without operate. It needs login again to operate.

Key Buzzer ："enable"--controller and panel key with sound ."disable"--without sound选

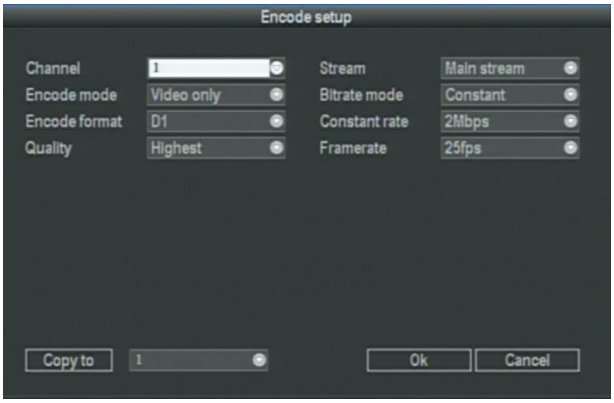
Language：Chinese and English can be used.

Video standard：PAL and NTSC can be choose. PAL is default setting. It will work after setting,safe and reboot.

DVR ID： controller connect by device number when it is used to control.The controller must correspond it's ID so that it can work. (see 2.3)

After setting this interface,click"ok",the information will safe and exit.click"cancel",the information will not safe and exit.

3.8.3.2 Encode setup



In the "system setup" menu, click "Encode setup "

Channel ： chose the right CH you like by clicking the select box

Stream： chose the right stream : "main stream" or "sub stream "

Encode mode：chose the right encode model you need : "video only "means only encoding for video ; "AV combined" means encoding for both video and audio.

Bitrate mode ：chose the right bitrate mode you need : "constant bitrate " means system encoding video as user-defined bitrate and and frame rate. "variable bitrate" means system encoding according to user-defined image quality and video frame rate , but bit rate is automatically adjusted by the system depending on the video sceen. "average birtrate " means system automatically adjusted fluctuation as user- defined bitrate.

Encode format： encoding resolutions defined by user' need : （QCIF）176*144、 （CIF）352*288 (HD1)576*288 （D1）704*576

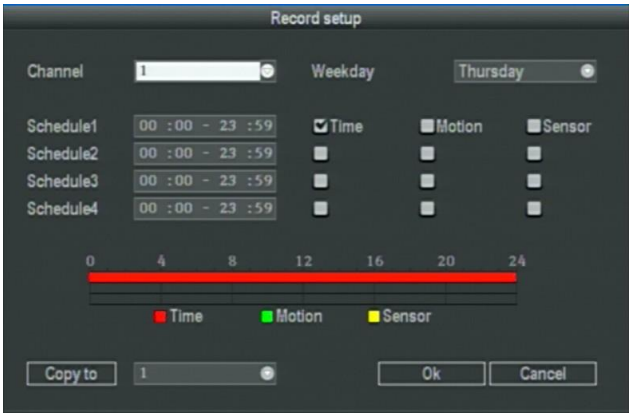
Bitrate： users select the encoding bitrate as needed. The higher bitrate ,the better image but with large disk space

Fluctuation： image quality fluctuations , user identified.

Frame rate ： users select the video frame rate as needed. The higher frame rate ,the better image but with large disk space

Copy to ： select the target channel on the right of "copy to "button ,click "copy to" & "ok " then system will set the current channel setup information to other target video channel. Click button "cancel", the setup information is non-saved but to exit.

3.8.3.3Recode setup



In the "system setup" menu, click "Record Setup "

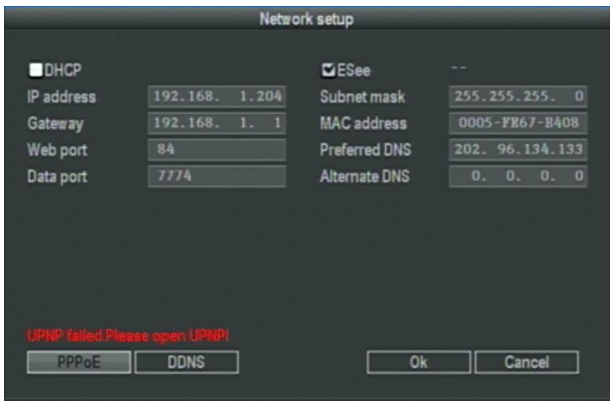
Channel ： chose the right CH as needed by clicking the inverted triangle

Weekday : chose the right day as user's need, "ALL" means all days in a week.

Image mode and time ： every time slot can set different recoding mode in all 4 time slot. "Time " recording with red color , "Motion" recording with green color , "Sensor"recording with yellow color ; "☑" means working , "□" means invalid. The bottom parts has times status display, whole schedule from time 0~24 hours

Copy to ： select the target channel on the right of "copy to "button ,click "copy to" & "ok " then system will set the current channel setup informations to other target video channel. Click button "cancel", the setup informations is non-saved but to exit.

3.8.3.4Network setup



In the "system setup" menu, click " Network Setup "

MAC address：showing the device's MAC address

DHCP：select whether to start up DHCP to automatically obtain IP 。"☑"means works ； "□" means non-work

IP address ： the IP address must be unique and can not be in conflict with the host or workstation on the same network segment

Subnet Mask ： subnet for the network segment。

Gateway：need to set the gateway address to achieve communication between the different network segments.

DNS address ： devices used PPPOE protocol to access network to gain a dynamic IP address

HTTP port ： port number IE browser visit , default port is "80"

Client port ； port number device and mobile visit , suggest to set above 2000

ESeenet ID： after connecting internet , click“☑Eseenet” to gain a Eseenet ID , which can be used in IP remote monitoring in ESeenet network server

Mobile Internet configuration 4G, 3G & 2G

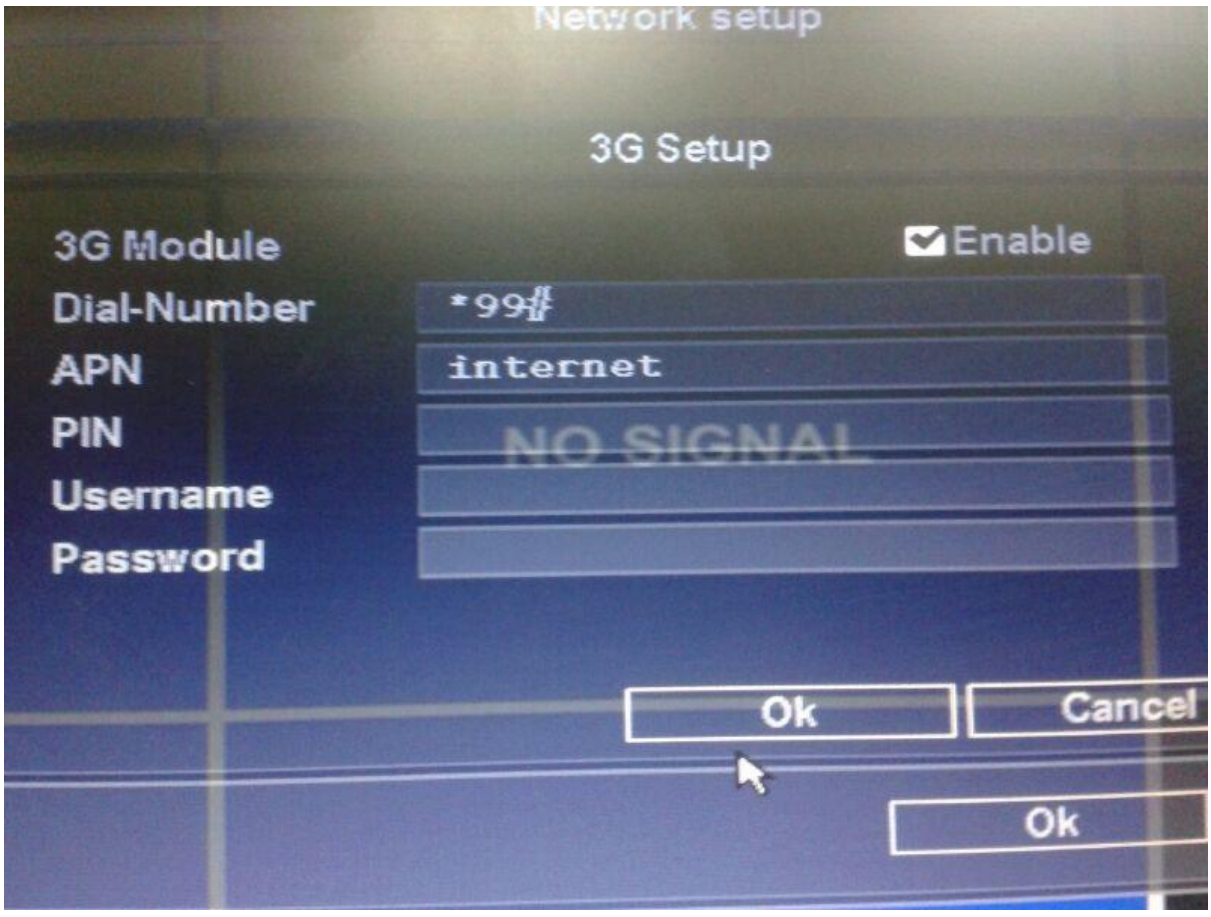
Start using ： “☑3G”means to start up PPPOE dial-up. “□” means not to start up

Dial Number for: *99# or #777

APN Setting: internet

PPPOE user： Nil

PPPOE password ： Nil



After the page setup is completed, click '"OK " to save the changes ; click "cancel " , non-save but exit.

DDNS setting: automatic analytical function of dynamic domain name, supported Magus free DDNS

In the "network setup" menu, click " DDNS "

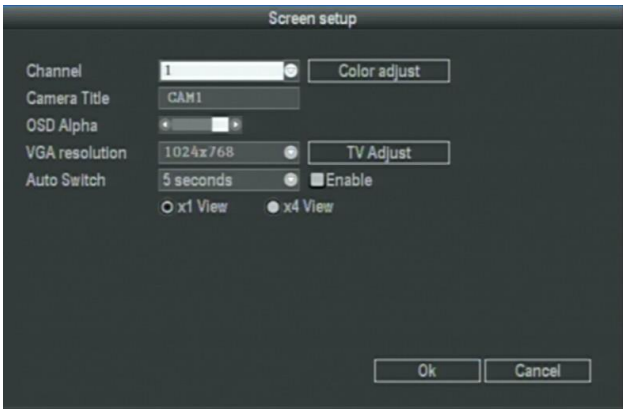
Start using ： "☑means DDNS dynamic domain services start using ;"□"means not to start up。

Select the right network server and input user name, password and domain name

edit method pls refer to 3.3.2(4)）

In the "system setup" menu, click " Network Setup "

3.8.3.5 Screen setup



In the "system setup" menu, click " Screen setup "

Channel ： chose the right CH as needed by clicking select box

title ： edit any channel title as needed

OSD title : "☑ means display channel title, "□"means non-display

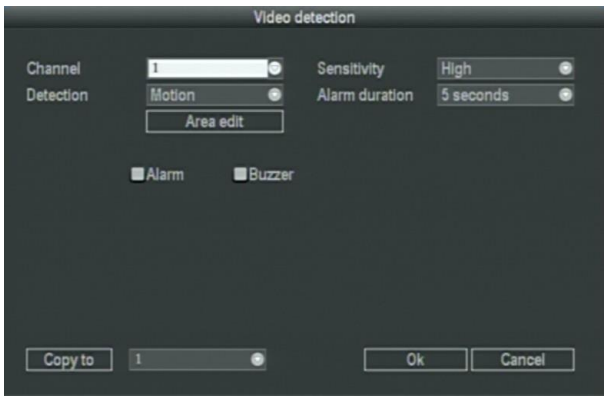
OSD Alpha： OSD menu transparency. Can be adjusted as needed

OSD time ： "☑display system time，"□" non- display;

Sequence Dwell ：the time of auto switching preview image , can be single screen or 4 Channels screen.

Start using："☑start using ，"□" non-start using

After the page setup is completed, click "'OK " to save the changes ; click "cancel " , non-save but exit. **3.8.3.6 video detection**



In the "system setup" menu, click " video detection "

Sensor ： chose the right CH as needed by clicking the inverted triangle

Sensitivity ： chose the trigger video detection sensitivity

Detection type：select detection type --motion, video loss ,"keep out" alarm

Alarm duration: after chose the trigger video detection, the time alarm last

Area edit : set motion detection area ;move by choosing left of mouse.

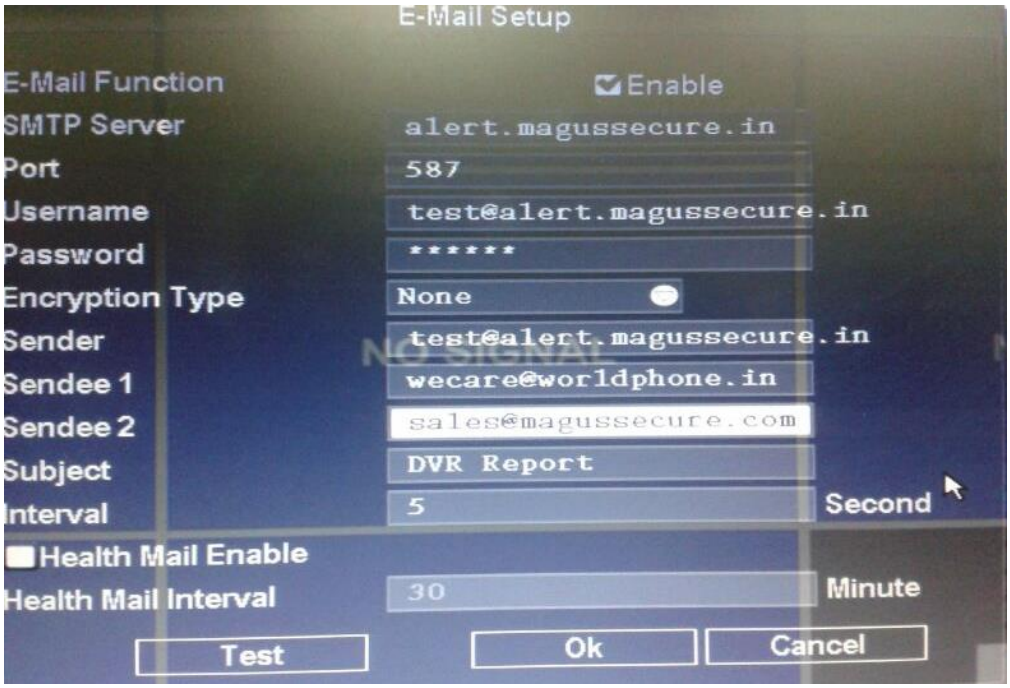
Record channel : system defaulted channel after trigger video detection,,

Alarm："☑means start ，"□"means non start 。

Buzzer ："☑means start ，"□"means non start。

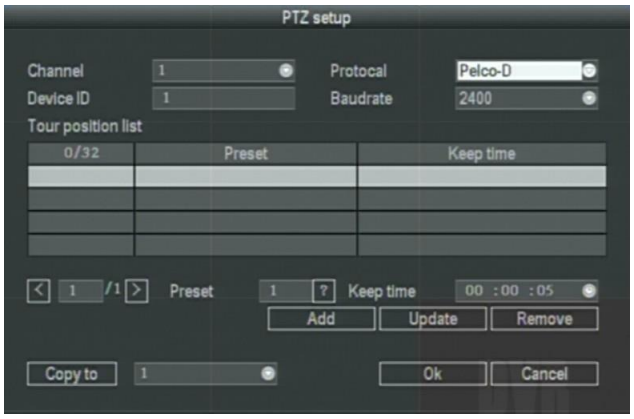
OSD ："☑means "'detection " marks shows on screen,，"□" means non show

E-Mail notice ："☑ means E-Mail valid，"□" means E-Mail invalid。



Copy to ： select the target channel on the right of "copy to "button ,click "copy to" & "ok " then system will set the current channel setup information's to other target video channel. Click button "cancel", the setup information's is non-saved but to exit.

3.8.3.7 PTZ Control



In system setup,click"PTZ set up"

Channel: choose the right channel, click the select box to choose

Protocal: the selected one must be the same with the one of PTZ

Data bit: choose the matched one of the PTZ

Address: input the address of appointed decoder

Stop bit: choose the matched one of the PTZ

Baudrate: choose the matched one of the PTZ

Parity check: choose the matched one of the PTZ

Copy set: choose the object route in the right select box, click the button of copy setting, then the informations of setting will be showed, which also can be applied in other object routes. After the setting, click the button of sure to exit with saving the , or click the botton of cancle to exit without saving.

3.8.3 8 Sensor setup

In the system setup , choose the "PTZ setup"

Channel: choose the right channel, click the select box to choose

Work mode: setting to start alarm or not

Alarm duration: set up the alarm duration time

Alarm: "☑"start alarm, "□"close alarm

Buzzer: "☑"start buzzer, "□" close buzzer

Screen note: "☑"alarm icon shows on the displayer, "□" no alarm icon showson the displayer

E-mail: “☑start "e-mail" senting function, “□”shows close the function

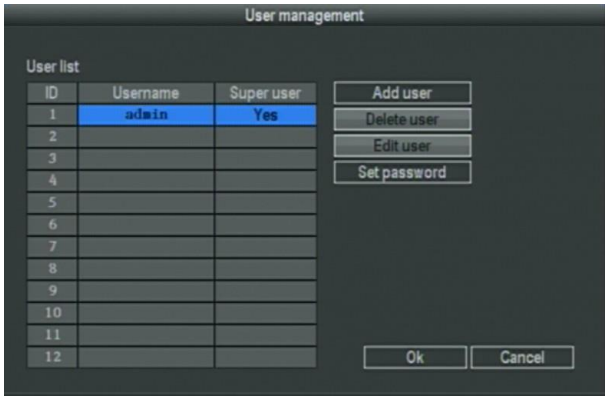
Copy to setup: choose the target channel in the right select box, click" copy to" ,the setting information will be applied to other channel.

After the setting, click "OK" to exit with saving the , or click"cancle"to exit without saving.

3.8.4 management tool

In main menu, choose"management tool", it includes four interface of the user management, disk control, system maintainance and factory reset.

3.8.4.1 user management



In the management tool, click" user management ".

Add user: input a new user name in the edit box and set up the operational authority. Choosing in the right check box, “☑ users can use it, “□” users can not use it. Click the "password setup" to set the password, or it can be the default password.

Delete user: delete the secelted user

Edit user: edit the selected user

Set password : set up the password

After the setting, click "OK" to save and exit, or click t"cancle" to exit without saving.

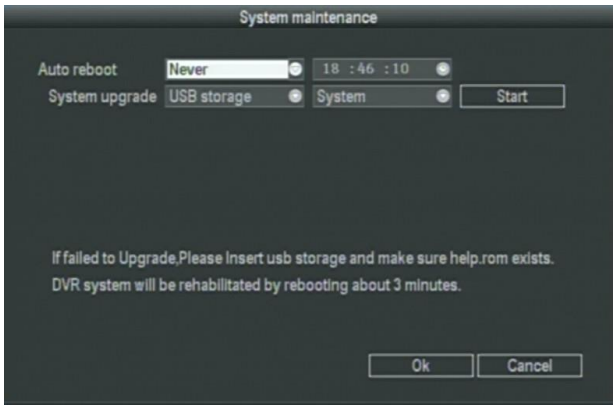
3.8.4.2 HDD management

In the " management tool", click "HDD management"

Overwrite: "☑ early videos will be covered when the disk is full, "□"shows not cover.

Format: "☑ stands selected, "□" stands not selected, when click "format" a confirm interface will pop up, then click confirm to format, click cancle to return the main interface.

3.8.4.3 system maintenance



In the " management tool", click "HDD management".

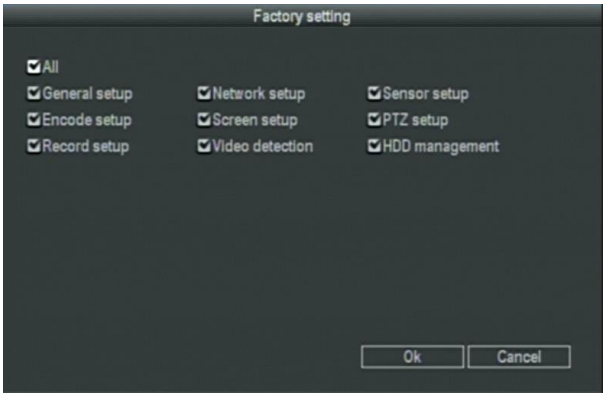
Auto reboot: setting the time of automatic reboot, it can set" Saturday to Sunday" . "Never" means donnot reboot automatically.

sysytem upgrade: copy the upgraded file to the root directory of USB drive, select the USB storage device, then click "begin" to upgrade the system. After upgrading,click"OK" then system auto reboot.

Remarks: the upgrade document name must be: **FWHI1504A_***.rom(4ch), FWHI1508A_***.rom (8ch),**

"*" means** the publish time: such as **FWHI1504A_20110520.rom**

3.8.4.4 factory setting



In the " management tool", click"factory setting"

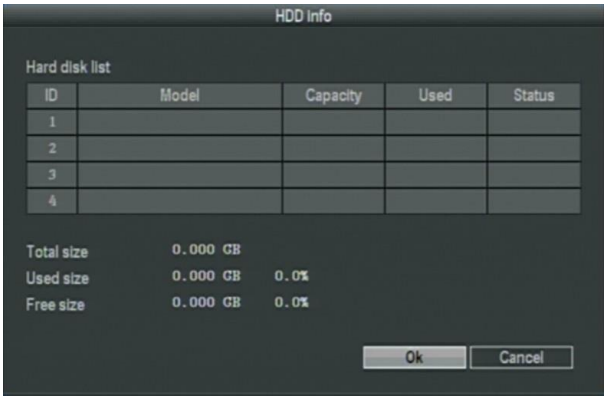
Select the terms which need factory setting, click "OK"to save and exit or click "cancle" to exit without saving.

Remarks: after factory setting, all the settings will be the initial one, please use carefully.

3.9 system information

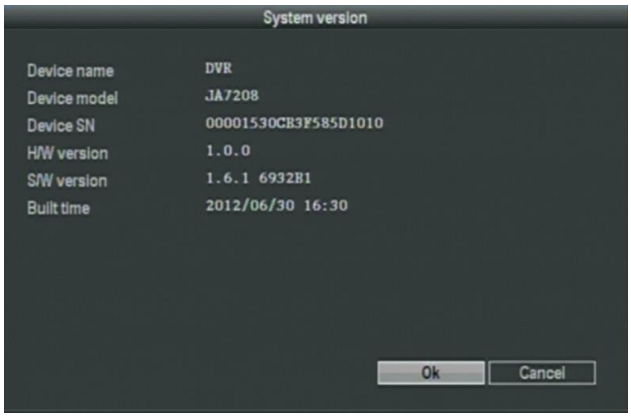
In the main menu,click"system information"which include HDD information, system information and system log .

3.9.1 HDD information



The listbox shows the HDD status information

3.9.2 system information



Device name,device model,H/W version, S/W version could be check here.

3.9.3 system log

Choosing the log type which need checking from listbox, First select the type in the , and input the time in the editbox, then click" search", the relevant informations will showed below, you can turn the page by click " former" and "next", or input the No. of the page.

3.10 system logout

In the main menu, click"system logout"

User logout: uesd for exit users. After logout, if you want to use the device continue, it is necessary to relogin after logout.

System reboot: It will reboot after "OK".

Recommended list USB modem

Huawei E270+
Huawei E1820
Huawei K3765
Huawei K4505
Huawei K4605 (for Vodafone)
Huawei E352 (for T-Mobile)
Huawei K3770 (for Vodafone)
Huawei K3771 (for Vodafone)
Huawei E535
Huawei E171
Huawei E353
Huawei E173Bu (Airtel E1731)
Huawei E173Du (Idea E1732)
ZTE MF620
ZTE MF628
ZTE MF622
ZTE MF626
ZTE MF628+
ZTE MF633
ZTE MF636
ZTE MF637
ZTE AC8710
ZTE AC2726
ZTE AC2710

ZTE MF110 (for Variant)
ZTE MF112
ZTE K3806-Z (for Vodafone)
ZTE MF638
ZTE 6535-Z
ZTE K3520-Z
ZTE K3565
ZTE MF190
ZTE MF652
Huawei E261 (WCDMA Open modem)
Huawei E220
Huawei E230
Huawei E270
Huawei E870
Huawei E169
Huawei E630
Huawei E1550
Huawei E1750
Huawei E1612
Huawei E1690
Huawei E1692
Huawei E1762
Huawei EC168C
Huawei EC156
Huawei E180

*Above said modem list is suggested but not test, please make sure well-matching before buy

Default Setting for various service provider (APN & Dial number)

Sl.No.	Service Provider	APN	Dialup Number	User Name	Password
4G Mobile Data Service					
1	Airtel 4G	airtelgprs.com	*99#	None	None
2G & 3G Mobile Data Service					
2	Airtel-3G	airtelgprs.com	*99#	None	None
3	Idea Netseter-3G	internet	*99#	None	None
		imis	*99***1#		
4	Aircel-3G	aircelgprs.com	*99***1#	None	None
5	MTNL-3G	gprsmtnldel or gprsmtnlmum or www	*99#	mtnl	mtnl123
6	BSNL-3G		*99***1#	None	None
			*99#		
7	Reliance-3G	rcomnet	*99#	None	None
8	Vodafone-3G	www	*99#	None	None
9	TATA DOCOMO-3G	tatadocomo3g	*99#	None	None
10	Loop (BPL) Mobile	bplgprs.com	*99***1#	bplmobile	None
		mizone	*99#	None	None
CDMA					
12	Tata Photon+	None	#777	internet	internet
13	MTS Mblaze	None	#777	internet@internet.mtsindia.in	123
14	Reliance Net connect	Internet or	#777 or	None	None
		None	*99#		
15	BSNL-EVDO	None	#777	None	None

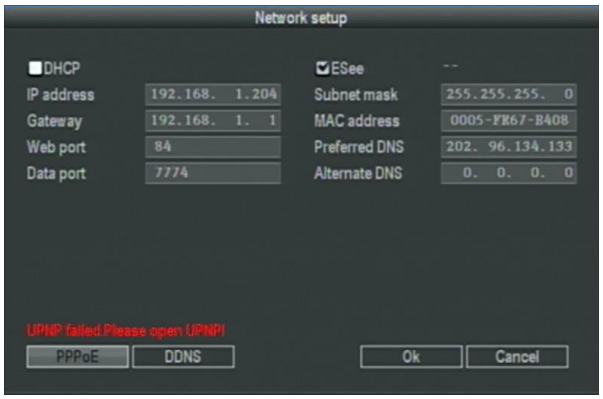
*APN & Dial number are by default used by the various service provider, however you can use current setting of your Data card.

Esee net operational description

1.DVR connect with network and insure it is running.

2.Setup the UPNP function from Router: this Router is TP-LINK, just find the UPNP out and setup.

1. Turn into DVR: click right button of mouse-setup-system setup-network setup,as below:



IP Address：Default for：192.168.1.114（fill out according to your actual situation:1 segment: 192.168.1.114，0 segment: 192.168.0.114，If IP without conflict, no need to change.)

Subnet Mask：default for 55.255.255.0

Gateway：default for 192.168.1.1（can be change according to the actual situation）routers running status can check from segment.

DNS Address：192.168.1.1, change into user's network DNS. (can check the DNS address from router)

After full fill all the information and save, exit to menu then turn into above menu again. Esee ID will appear.

4、visit IE browser and input:

www.e-seenet.com

First setup enable the active-X as picture:

Click Tool- internet option- security-user defined safety level-enable all section related to Active x . Remark:if there is a remark showing (not safe),can ignore-then choose ok. Download and install the Active x. Before install,pls close all IE windows.

5、input Esee ID into Device ID, user name and passwords as DVR. Default user name: admin, passwords: nothing.

1.1 video monitoring homepage:

Monitoring homepage including: preview window, PTZ control,preview mode, code stream selection, channel opening,setting,playback, user logout as below:

Turn on preview：click the target channel with left button of mouse, red color means select already. Double click the channel can open or close the correspond preview channel, such as: open; close

Preview mode：can click ▢⊞▢o choose the mode, or double click preview window to switchover into multi-channel mode.

Disclaimers

This series specifically meant for mobile network video transmission application. Always check the DVR with data card at the installation location of the DVR before buying data card.

Don’t go by standards, refer suggested list of hardware& services.